Package 'carpenter'

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Type Package

Title Build Common Tables of Summary Statistics for Reports

Version 0.2.2

Description Mainly used to build tables that are commonly presented for bio-medical/health research, such as basic characteristic tables or descriptive statistics.

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LazyData TRUE

Imports dplyr, magrittr, tidyr, pander, utils, stats, lazyeval, tibble

RoxygenNote 6.1.1

Suggests knitr, rmarkdown, testthat, covr

VignetteBuilder knitr

URL https://github.com/lwjohnst86/carpenter

BugReports https://github.com/lwjohnst86/carpenter/issues

Encoding UTF-8

NeedsCompilation no

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Repository CRAN

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Contents

`add_rows` *Add rows to the table with summary statistics.*

Description

Add rows to the table with summary statistics.

Usage

```
add_rows(data, row_vars, stat, digits = 1)
```

Arguments

`data`	Output from the `outline_table` object.
`row_vars`	The variables that you want added to the table. Must be from `outline_table`.
`stat`	The summary statistic or any other function. A list of built functions can be found in `table_stats()`.
`digits`	What to round the value to.

Value

Adds a row with summary statistics for a variable. Is a tibble.

See Also

`carpenter()` for a list of all functions, examples, and accessing the introduction tutorial vignette. See `table_stats()` for a list of carpenter builtin statistics.

`build_table` *Build the final table.*

Description

Output can be to common formats such as rmarkdown, html, etc, based on the `style` argument of the `pander::pander()` function.

Usage

```
build_table(data, caption = NULL, style = "rmarkdown", split = Inf,
  missing = "", alignment = "center", finish = TRUE)
```

Arguments

data	The draft table object.
caption	Table caption.
style	What output style (rmarkdown, grid, simple, etc) should the table be.
split	When should the table split when it is too wide? (Inf means never).
missing	How to deal with missing values in the table (removed by default).
alignment	Table column alignment.
finish	Generate the final table in markdown formatted form.

Value

Creates a `pander::pander()` created table.

See Also

`carpenter()` for a list of all functions, examples, and accessing the introduction tutorial vignette.

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carpenter *Build common tables for your research needs!*

Description

Build common tables for your research needs!

See Also

`add_rows()` to add rows to the table, `renaming()` for renaming of columns and rows, `build_table()`, `table_stats()` for a list of built-in summary statistics. For a more detailed walkthrough of carpenter, see the introduction vignette using `vignette('carpenter')`.

Examples

```
library(magrittr)
outline_table(iris, 'Species') %>%
 add_rows(c('Sepal.Length', 'Petal.Length'), stat_meanSD) %>%
 add_rows('Sepal.Width', stat_medianIQR) %>%
 renaming('rows', function(x) gsub('Sepal\\.', 'Sepal ', x)) %>%
 renaming('header', c('Measures', 'Setosa', 'Versicolor', 'Virginica')) %>%
 build_table(caption = 'A caption for the table')
```

outline_table *Make an outline of the table you want to create.*

Description

Make an outline of the table you want to create.

Usage

```
outline_table(data, header = NULL)
```

Arguments

data	Dataset to use to create the table
header	Column or variable(s) that will make up the rows

Value

Dataframe ready for further carpentry work, like adding rows, summary statistics, renaming, etc.

See Also

carpenter() for a list of all functions, examples, and accessing the introduction tutorial vignette.

renaming *Renaming row and header variables.*

Description

Renaming row and header variables.

Usage

```
renaming(data, type = c("rows", "header"), replace)
```

Arguments

data	The table_draft object.
type	Whether to rename the row column or the headers.
replace	If type is 'row', needs to be a function (anonymous or otherwise) using the base::gsub() function to substitute patterns, words, characters, or symbols, etc. If type is 'header', needs to be a string of equal length as the header to replace the header variables.

Value

Adds to the table outline to rename the rows and/or header variables in the final table.

See Also

carpenter() for a list of all functions, examples, and accessing the introduction tutorial vignette.

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table_stats *Common summary statistics to use in* add_rows().

Description

Common summary statistics to use in add_rows().

Usage

```
stat_median(x, digits = 1)

stat_iqr(x, digits = 1)

stat_medianIQR(x, digits = 1)

stat_mean(x, digits = 1)

stat_stddev(x, digits = 1)

stat_meanSD(x, digits = 1)

stat_nPct(x, digits = 0)
```

Arguments

x	Numeric vector to use to calculate the statistic
digits	Number of digits to use

Value

Create a single character string with the summary statistic

See Also

carpenter() for a list of all functions, examples, and accessing the introduction tutorial vignette.

Index